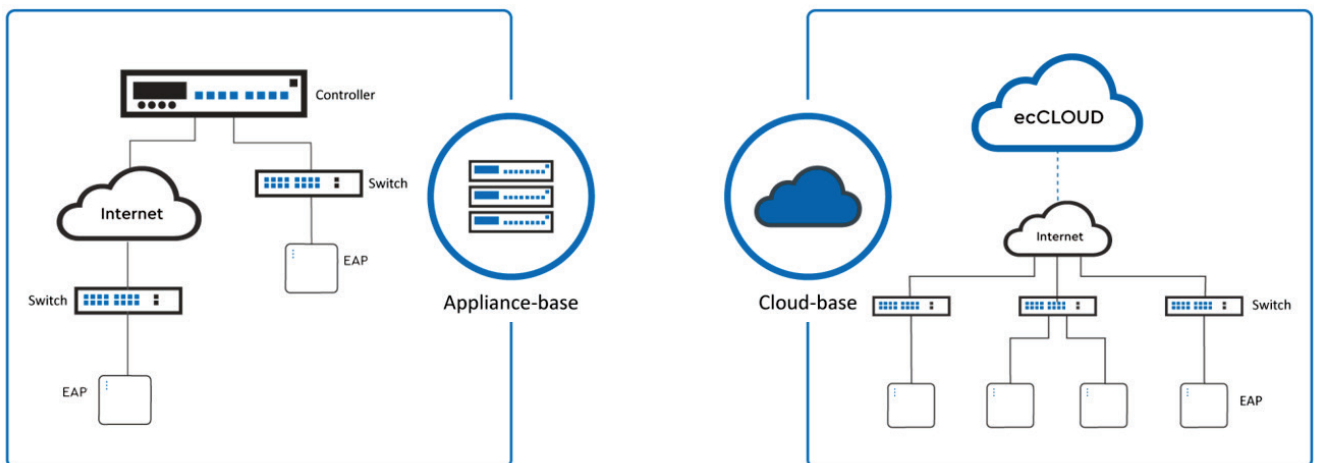


# EAP111

## WI-FI 6 ACCESS POINT

### INTRODUCTION

EAP111 stands as an enterprise-grade, dual-band Wi-Fi 6 access point boasting a concurrent operation and an IP55-rated enclosure. With support for 2x2:2 uplink and downlink MU-MIMO between the access point and multiple clients, EAP111 delivers an impressive aggregated data rate of up to 3 Gbps. Notably, EAP111 comes equipped with a Bluetooth Low Energy (BLE) radio and ZigBee, enabling the integration of value-added applications such as iBeacon. Whether operating in standalone mode or under the management of Edgecore ecCLOUD, ecCLOUD-VPC, or EWS/VEWS Series controllers, EAP111 exemplifies versatility and high-performance connectivity.



### HIGHLIGHTS

- Wi-Fi 6 2x2 uplink and downlink MU-MIMO with up to 3 Gbps data rate
- Support up to 32 ESSIDs.
- Enterprise-Grade Wireless Security
- Bluetooth Low Energy (BLE) and ZigBee support
- IP55 rating

## SPECIFICATIONS

### PHYSICAL

|                                 |                                                                                                                                                                                             |
|---------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Power</b>                    | <ul style="list-style-type: none"><li>• DC Input: 12V / 2.0A (Power adapter not included)</li><li>• PoE: 802.3at compliant (PoE injector not included)</li></ul>                            |
| <b>Dimensions</b>               | <ul style="list-style-type: none"><li>• 170 mm (L) x 185 mm (W) x 39.45 mm (H)</li></ul>                                                                                                    |
| <b>Weight</b>                   | <ul style="list-style-type: none"><li>• 0.63 kg</li></ul>                                                                                                                                   |
| <b>Interface</b>                | <ul style="list-style-type: none"><li>• Uplink: 1 x 10/100/1000Base-T Ethernet, Auto MDIX, RJ-45 with 802.3at PoE</li><li>• LAN: 1 x 10/100/1000Base-T Ethernet, Auto MDIX, RJ-45</li></ul> |
| <b>LED Indicator</b>            | <ul style="list-style-type: none"><li>• 1 tri-color LED: Power, Cloud Status, Uplink</li></ul>                                                                                              |
| <b>Buttons</b>                  | <ul style="list-style-type: none"><li>• Restart / Reset</li></ul>                                                                                                                           |
| <b>Environmental Conditions</b> | <ul style="list-style-type: none"><li>• Operating Temperature: 0°C (32°F) to 45°C (113°F)</li><li>• Operating Humidity: 5% to 95% non-condensing</li><li>• IP55 Rating</li></ul>            |
| <b>Power Consumption</b>        | <ul style="list-style-type: none"><li>• 21.4 W max.</li></ul>                                                                                                                               |
| <b>Antenna</b>                  | <ul style="list-style-type: none"><li>• Type: Built-in antenna</li><li>• Gain: 4.9 dBi (2.4 GHz), 5.8 dBi (5 GHz), 5.2 dBi (BLE)</li></ul>                                                  |
| <b>Mounting</b>                 | <ul style="list-style-type: none"><li>• Wall/Ceiling mount (Mounting kit included), Pole mount (Mounting kit &amp; hose clamp optional)</li></ul>                                           |
| <b>Anti-theft</b>               | <ul style="list-style-type: none"><li>• 1 x Kensington lock slot</li></ul>                                                                                                                  |

### WI-FI

|                                                        |                                                                                                                                                                                                                                                                                                                                                                          |
|--------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Standards</b>                                       | <ul style="list-style-type: none"><li>• 802.11a/b/g/n/ac/ax (Wi-Fi 6)</li><li>• Concurrent dual-band 2.4 &amp; 5 GHz</li></ul>                                                                                                                                                                                                                                           |
| <b>Supported Data Rates</b>                            | <ul style="list-style-type: none"><li>• 802.11b: 1, 2, 5.5, 11 Mbps</li><li>• 802.11a/g: 6, 9, 12, 18, 24, 36, 48, 54 Mbps</li><li>• 802.11n: 6.5 – 300 Mbps (20 / 40 MHz)</li><li>• 802.11ac: 6.5 – 867 Mbps (20 / 40 / 80 MHz)</li><li>• 802.11ax: 3.6 – 574 Mbps (2.4 GHz, 20 / 40 MHz)</li><li>• 802.11ax: 3.6 – 2402 Mbps (5 GHz, 20 / 40 / 80 / 160 MHz)</li></ul> |
| <b>Radio Chains</b>                                    | <ul style="list-style-type: none"><li>• 2.4 GHz: 2 x 2 ; 5 GHz: 3 x 3</li></ul>                                                                                                                                                                                                                                                                                          |
| <b>Spatial Streams</b>                                 | <ul style="list-style-type: none"><li>• 2; Uplink and downlink MU-MIMO support</li></ul>                                                                                                                                                                                                                                                                                 |
| <b>Aggregate Conducted Transmit Power*<sup>1</sup></b> | <ul style="list-style-type: none"><li>• 2.4 GHz: Up to 25.5 dBm*<sup>2</sup></li><li>• 5 GHz: Up to 25 dBm*<sup>2</sup></li></ul>                                                                                                                                                                                                                                        |
| <b>Channelization</b>                                  | <ul style="list-style-type: none"><li>• 2.4 GHz: 20 / 40 MHz</li><li>• 5 GHz: 20 / 40 / 80 / 160 MHz</li></ul>                                                                                                                                                                                                                                                           |
| <b>Frequency Range</b>                                 | <ul style="list-style-type: none"><li>• 2.401 – 2.483 GHz</li><li>• 5.170 – 5.835 GHz</li></ul>                                                                                                                                                                                                                                                                          |
| <b>Operating Channels</b>                              | <ul style="list-style-type: none"><li>• 2.4 GHz: 1-11 (US), 1-13 (Europe, Japan)</li><li>• 5 GHz*<sup>3</sup>: 36-165 (US), 36-140 (Europe), 36-144 (Japan)</li></ul>                                                                                                                                                                                                    |
| <b>ESSIDs</b>                                          | <ul style="list-style-type: none"><li>• Up to 16 per radio (32 in total)</li></ul>                                                                                                                                                                                                                                                                                       |
| <b>Certifications</b>                                  | <ul style="list-style-type: none"><li>• FCC, IC, CE, LVD, TELEC, VCCI, NCC, BSMI</li></ul>                                                                                                                                                                                                                                                                               |

\*1: RF output power aggregates across MIMO chains and doesn't contain antenna gain

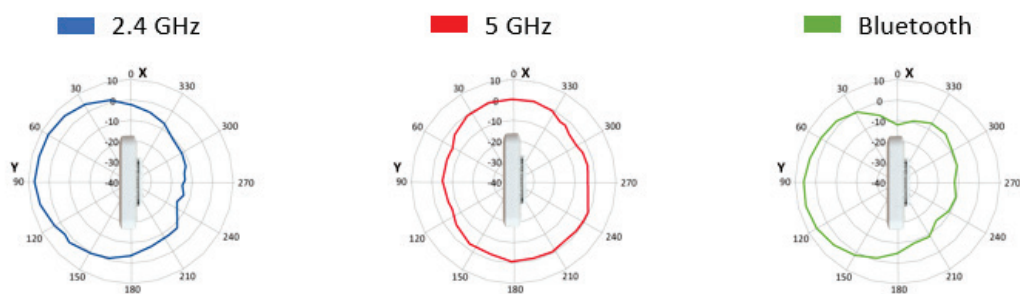
\*2: Maximum power is limited by local regulatory requirements

\*3: Some channels are restricted by local regulatory and certifications.

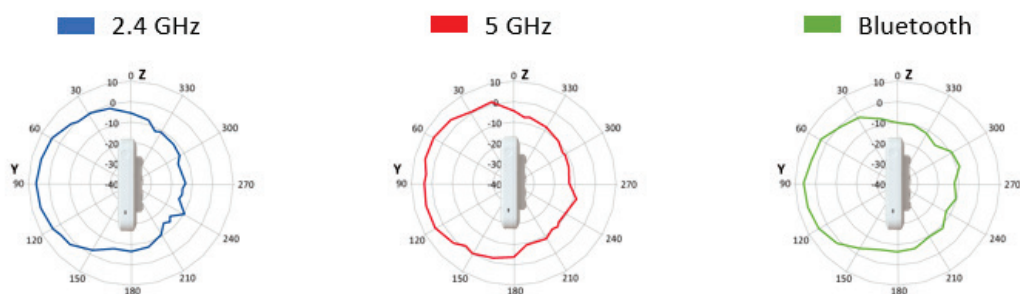
| PERFORMANCE        |                                                                                                                                                                                                                                                                                                                                                             |
|--------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Physical Data Rate | <ul style="list-style-type: none"> <li>Up to 574 Mbps (2.4 GHz)</li> <li>Up to 2402 Mbps (5 GHz)</li> </ul>                                                                                                                                                                                                                                                 |
| FEATURES           |                                                                                                                                                                                                                                                                                                                                                             |
| Wireless           | <ul style="list-style-type: none"> <li>802.11 k/v/r</li> <li>Orthogonal Frequency Division Multiple Access (OFDMA)</li> <li>Client Isolation</li> <li>Open Mesh (not in the first release)</li> <li>BSS Coloring</li> <li>Band Steering</li> <li>Wi-Fi Enhanced Open (OWE)</li> <li>Wireless Site Survey</li> </ul>                                         |
| Network            | <ul style="list-style-type: none"> <li>Spanning Tree Protocol (STP)</li> <li>Dynamic Host Configuration Protocol (DHCP)</li> <li>802.1q</li> <li>Access Control List (ACL)</li> <li>Network Address Translation (NAT)</li> </ul>                                                                                                                            |
| Security           | <ul style="list-style-type: none"> <li>WPA-Personal (AES)</li> <li>WPA-Enterprise (AES)</li> <li>WPA2-Personal (AES)</li> <li>WPA2-Enterprise (AES)</li> <li>WPA3-Personal (AES)</li> <li>WPA3-Personal Transition (AES)</li> <li>WPA3-Enterprise transition (AES)</li> <li>L3 Firewall</li> </ul>                                                          |
| Maintenance        | <ul style="list-style-type: none"> <li>Network Time Protocol (NTP)</li> <li>Standalone</li> <li>Management by ecCLOUD</li> <li>Management by ecCLOUD-VPC</li> <li>Management by EWS/VEWS Series Controller (Complete tunnel/Split Tunnel)</li> <li>SSH</li> <li>QR Code Onboarding</li> <li>Remote Syslog</li> <li>Zero Touch Provisioning (ZTP)</li> </ul> |
| QoS                | <ul style="list-style-type: none"> <li>RSSI Threshold (Optimal Client Filtering)</li> <li>Multicast-to-Unicast Conversion</li> <li>WME</li> </ul>                                                                                                                                                                                                           |
| Others             | <ul style="list-style-type: none"> <li>Target Wake Time (TWT)</li> <li>iBeacon</li> </ul>                                                                                                                                                                                                                                                                   |

## SIGNAL COVERAGE PATTERN

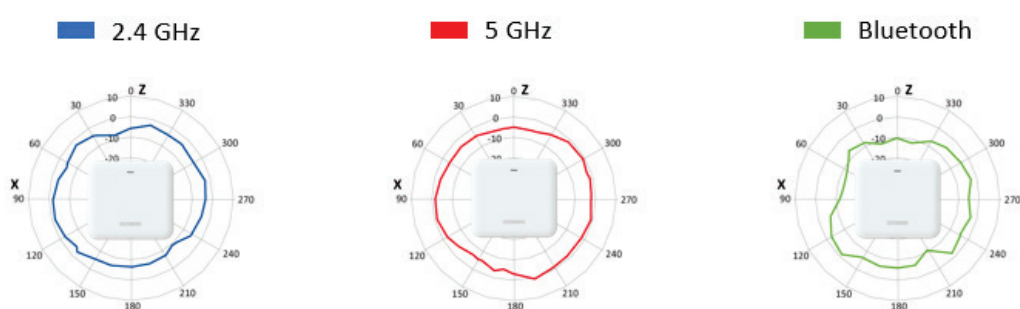
**Azimuth**



**Elevation ZY**



**Elevation ZX**



## OPTIONAL ACCESSORIES

| Part Number   | Description                                                    | Remark                       |
|---------------|----------------------------------------------------------------|------------------------------|
| FI2WLP111001E | EAP111 (WW)                                                    | Edgecore EAP111              |
| 131500000316A | Optional power adapter with changeable US / JP / EU / UK plugs |                              |
| 131500000258A | Optional US/JP power adapter                                   | Quantities of 96 in a carton |
| 131500000259A | Optional EU power adapter                                      | Quantities of 72 in a carton |
| 131500000262A | Optional UK power adapter                                      | Quantities of 72 in a carton |
| 123400001540A | Optional metal pole mount bracket                              |                              |
| 125900000249A | Optional hose clamp                                            |                              |